SBR 000036
Dt: 25/02/2022

BR:

4th RA Bill

BR: 000036
Dt: 25/02/2022

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No.

Date:

Division: Electrical (DASARAHALLY) **Job No** 015-20-000017 Sub- Division:

Head of Account :P 0300 M&R to Street lights - Replacement of Burnt bulbs etc

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket Name of Work (as per sanctioned estimate) Operation and maintenance of street lights Package - D 4 Ward No 15 T Dasarahalli.

BILL Period:- 01-10-2021 to 31-12-2021 (3 month)

Contractor and Full Address:-M/s Manjunatha Electricals

Work Order No:- EE/(Elec)/DZ/TEND/WO/000007/2020-21 Dated :13-01-2021

Reference to Agreement Date .....

Certified that the measurements were taken by me on 01/01/2022 and recorded of pages 126 to 127 of Measurement Book No 3402 and that the work is satisfactorily executed.

Contractor

Officer in charge of work

JUNIOR ENGINEER (Ele)

Certified that the measurements were taken by me on 03/01/2022 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

Sub-division Officer

ASST. EXECUTIVE ENGINEER (Ele)
Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

21) Total value of work done or supplies as per account within	Bill upto date:	949814.32
22) Deduct amount to be held in reserve being ..... per cent Rs.....	Previous bill:	T25796.13
23) " Balance	Present bill :	224018=00
24) Deduct payment :		
i) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....	GF	2240=00
Amount adjusted towards cash advance recovery of	SGST	2000=00
j) Payments cost store or other material supplied.	SGST	2000=00
Now made recovery amount creditable to this/ other work	Adv	2240=00
Amount paid on this bill cheque/cash		224=00
25) Balance being unpaid value of work done held in reserve	CBF	4480=00
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments	Scrap	6600=00
7) Net amount due to or from contractor	fine	
	Total ded:	19784=00
Unadjusted items		
8) Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied	Chq.amt:	204234=00

Contractors Signature

Received Rs.....(in words)
.....
by cash and adjustment of payment as per memorandum.
Witnesses :
1.
2.
Dated .....Signature of contractor
Paid by me by cheque No.....Dated.....
Cash Rs.....

224018/-
204234/-

Audited and found correct
Passed by Cheque for Rs.
Stamp

(For use in the office)

Two lakh four thousand two hundred and thirty four rupees only

by adjustment Rs. 19784/-

Initials of Officer making payment

Executive Engineer (Ele)

Accounts Superintendent

B.P.M.P. Dasarahalli Division

Name of work:-Operation and maintenance of street lights Package - D 4 Ward No 15

	Description of Item (Described)	Unit
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 36/40 W fluorescent tube light street lighting system	Each
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 250W HPMH light street lighting system	Each
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 400 watts HPSV light street lighting system	Each
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 24 W LED light street lighting system	Each
5	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 65 W LED light street lighting system	Each
6	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starter and switching ON/OFF of street lights at specified timing and Pole numbering,Preparing ward wise , street wise data bank furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lighting system as detailed below. Poles with 90 W LED light street lighting system	Each
7	Operation and maintenance of Manual and Automatic Timer Switching circuits including replacement of electrical gadgets, such as MCB's Contactors, Timer, Out-outs, wiring connector and M.S. Box with proper insulation etc., complete.	
8	B Work to be carried ut as per requirment & actuals and as per the directions of the in charge engineer Painting of existing Street lighting pole after scraping the old paint and painted with suitable colour enamel/silver paint including coping/footing of the pole a) Upto 8 Mtrs light pole	Each
9	Moulded Case Circuit Breaker (MCCB) three pole 100Amps 25kA	
10	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP68 Thermoplastic polyamide glands and/or grommets 200mmx200mmx88mm	

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
Previously paid so far	Months		3 Months		Upto Date paid so far 11 Months 16 Days		
271 x 8 Months 16 Days	59535	281	34.64	21008.52	281 x 11 Months 16 Days	80844.71	
1097 x 8 Months 16 Days	464106.13	1097	51.82	170539.62	1097 x 11 Months 16 Days	634644.75	
36 x 8 Months 16 Days	17422.71	39	56.68	6137.01	36 x 11 Months 16 Days	23560.36	
1 x 8 Months 16 Days	380.82	1	44.78	134.34	1 x 11 Months 16 Days	515.17	
87 x 8 Months 16 Days	48179.85	87	58.02	16971.12	87 x 11 Months 16 Days	65146.47	
10 x 8 Months 16 Days	5993.75	10	70.09	2100.90	10 x 11 Months 16 Days	8064.65	
15 x 8 Months 16 Days	20228.91	15	158.36	7126.20	15 x 11 Months 16 Days	27355.11	
0	0.00	0	468.70	0.00	0	0.00	
25	46423.44	0	1567.93	0.00	0	46423.44	
27	33829.38	0	1252.94	0.00	0	33829.38	

	Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff 3.Load ballancing 4.Load power regulation 5.Status tracking. It works on the basis of some of these features 1) Main Control Unit(Mother board): Handles controlling,data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.							
	TOTAL							
	Add GST 12 % on item no 08 to 11							
	TOTAL Rs							
	Fine imposed for non burning of street lights For the period of 01/10/2021 to 31/12/2021							
	As per street light agreement clause 2 % will be deducted in monthly maintenance bill against the released scrap material							
	GRAND TOTAL							

Certificate

The above said monthly maintenance work has been carried out satisfactorily

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

4TH RA Bill

(For Other Works)

0	0.00	0	31415.00	0.00	0	0.00	
	716165.79			224018.19		940183.98	
	9530.34			0.00		9630.34	
	725796.13			224018.19		949814.32	
	32700.00			6600.00		39300.00	
	14323.32			4480.36		18803.68	
	678772.81			212937.83		891710.64	